

Seeing is Believing

HAZMAT CAM was tested at
Dugway Proving Ground, Utah
by National Guard WMD Civil
Support Teams



HAZMAT CAM

Affordable wireless video for chem/bio/rad incident response teams

The HAZMAT CAM is an affordable, lightweight, wireless video camera system for emergency first response teams. HAZMAT CAM can be completely submerged for fast and easy decontamination. The HAZMAT CAM increases responder safety and reduces response time during a chem/bio or other HAZMAT response by allowing the incident commander and other experts outside the exclusion zone to see in real-time what the entry team sees while making a first entry. It can also eliminate the need for multiple/repeat entries.

The three-antenna, true-diversity receiver minimizes signal distortion in urban environments due to signal multi-pathing. The image can be displayed on an existing video monitor or on the system's own color LCD monitor, and can be easily recorded using a common camcorder or VCR with video input.



Features

- Affordable
- Remote Color Camera
- Compact
- Laser Pointer
- Long Battery Life
- True Diversity Receiver
- Encryption Capable

Make real-time tactical decisions, increase safety, and reduce assessment time.

Extension Link

Extension Link is a separate transmitter and receiving system which increases the operating range of the HAZMAT CAM two to three miles, depending on environmental factors. The additional TX/RX link has field-selectable channels to avoid interference.

The complete HAZMAT CAM system with Extension Link is stored in four cases (total weight – 146 lbs.) and can be fully deployed by one person in a “stand-alone” configuration in less than 10

minutes. The system is totally battery operated and can operate for 5 continuous hours – using one set of spare camera batteries.

The HAZMAT CAM system was designed for maximum flexibility. For example, the system can be easily configured to view the signal at multiple receive stations or to transmit over the internet to support agencies. System configurations can accommodate most end user requirements.

**HAZMAT CAM viewing console
and true diversity receiver**



Handheld Camera

CAMERA	Color 1/3" CCD, 450 lines, 0.5 LUX, 36mm lens, Auto iris, DSP control
LASER POINTER	5 mW, 632nm (red), class IIIa laser
TX. POWER	300 mW
TX. FREQUENCY	904 MHz or 918 MHz (field selectable, others available)
TX. ANTENNA	2.5 dB Whip
RANGE	Up to 2000 Feet (depends on location)
EXT. RANGE	4 – 5 Miles (with Extension Link)
BATTERY TYPE	Lithium Ion, rechargeable, easy to change, commercially available
BATT. RUN TIME	2.5 continuous hours (5 hrs. with included spare)
CHARGER PWR	110 VAC
CHARGE TIME	1.5 Hours
PHYSICAL	Weight, 2.0 lbs. 12 ozs, Size, 8" long x 4" diameter Operating Temp.: 0° – 131° F, Waterproof to 13" (not intended to operate under water)
HOUSING	Heavy-duty polycarbonate, interchangeable mounts (lantern grip), clip-on light source, mini tripod

Receiver

RECEIVER TYPE	True Diversity (3 antenna)
ANTENNAS	3, 8dB Gain Patch Antennas
ARRAY SIZE	42/59" wide x 12" high x 12" deep
ARRAY WEIGHT	20.6 lbs
STORAGE BAG	Padded nylon, 50"x12"x12"
MOUNTING	Portable tripod or fixed structure
TRIPOD WEIGHT	16.6 lbs
TRIPOD BAG	Padded nylon, 62"x10"x8"
ADJUSTABLE HT.	5' to 15'
ENVIRONMENTAL	Weatherproof, -4° to 131° F operating temp.
CABLE LENGTH	Receiver to base system power case: 75'

Viewing Console

CASE	Pelican case, 20.5"x17"x8.5", Weight, 38.0 lbs (fully loaded)
MONITOR	Color, 6.4" TFT LCD (with mini-tripod stand)
AUX. VIDEO OUT	BNC connector for connecting external monitor and/or video recorder
BATTERY	Sealed lead/acid, 17 hrs run time with LCD monitor, Built-in recharger/pwr supply (110 VAC)
STORAGE	Storage for HAZMAT CAM, spare batteries, battery charger and cables

Extension Link (Relays signal for extended range)

TX. FREQUENCY	2.4 GHz (4 channel field selectable)
TX. POWER	800 mW
TX/RX ANTENNAS	14 dB Gain Patch Antennas
RANGE	4 – 5 Miles (depends on location)
MOUNTING	Portable tripod or fixed structure
TRIPOD STAND	5' – 15' height
BATTERY BOX	Sealed lead/acid, 36-hr run time, built-in recharger/pwr supply (110 VAC)
CASE	Pelican, 17"x14"x7"
WEIGHT	RX/Antenna Assembly, 7.6 lbs Tripod, 16.6 lbs Case 26.4 lbs (fully loaded)

***SPECIFICATIONS SUBJECT TO CHANGE**

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